



# Operations Report

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11 March 2004

CDF Weekly Meeting



## Power Incident - Saturday

- 🔌 ODH alarm due to sensor in collision hall with faulty reading  
→ HVAC in purge mode
- 🔌 Operator error in bypassing alarm caused detector power and HV to be shut down, solenoid slow dumped
- 🔌 Expert help was needed in one of the steps to power the solenoid back up
- 🔌 Access Sunday to fix COT readout that failed after the powercycling
  - 🌐 Also replaced O<sub>2</sub> heads in collision hall



## Power Incident - Tuesday

- ☞ Sitewide power glitch at about 5:00am Tuesday.
  - 🌐 Solenoid slow dumped.
  - 🌐 Silicon cooling alarm → silicon crash button used.
  - 🌐 Most computers/electronics not effected.
  - 🌐 Performed a full detector checkout. Thanks to everyone who helped out.
- ☞ We were back taking data at 23:00 Tuesday.



## E-Logs

- 🔴 On Monday, the system disk for the web server (b0dap61) failed. The e-log files are stored on the same disk.
  - 🟢 The disk was restored from the mirror, but the e-log files were absent.
  - 🟢 The e-logs were restored from the most recent back-up on tape.
- 🔴 Back-ups to tape are done daily. However, e-logs were missing for the period 12 Feb 2004, 12:00 until 8 March.
- 🔴 Rick Vidal has retrieved some of the missing entries from cache of people's Mozilla or Netscape browsers (recent versions).
  - 🟢 Much of the main shift e-logs were retrieved.
  - 🟢 System experts can check if they have cached files for other logs.
- 🔴 Checking earlier back-ups for more files.
- 🔴 Lesson: the e-logs have become an important component.

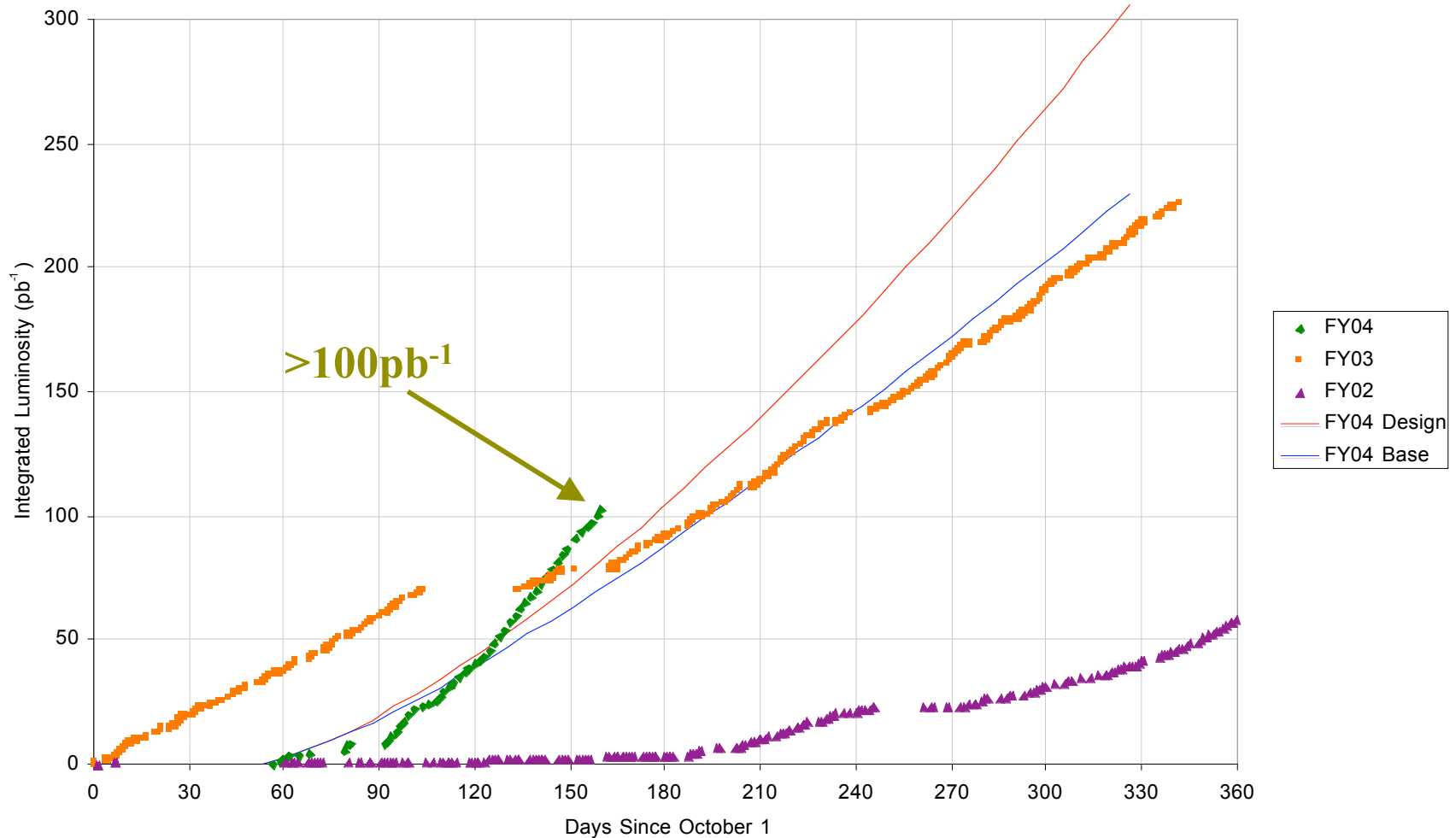


## This Week's Stores

Date	Store	Hrs	Inst Lum (initial)	Deliv (nb <sup>-1</sup> )	Lum to tape ( $\epsilon$ )	Si Phys Lum ( $\epsilon$ )	Comment
3/4	3273	25	49.4e30	2015	1733 (86%)	661 (33%)	<b>COT turned on during store. Quench</b>
3/5	3275	34	69.4e30	>3143	2437 (78%)	2098(67%)	<b>ODH alarm</b>
3/7	3277	33	61.8e30	3049	2665 (87%)	2665 (87%)	<b>Run 179726</b>
3/9	3283	17	63.9e30	2169	1817 (84%)	1766 (81%)	<b>Quench</b>
Total				10.4pb <sup>-1</sup>	8.7 pb <sup>-1</sup> (83%)	7.2 pb <sup>-1</sup> (69%)	

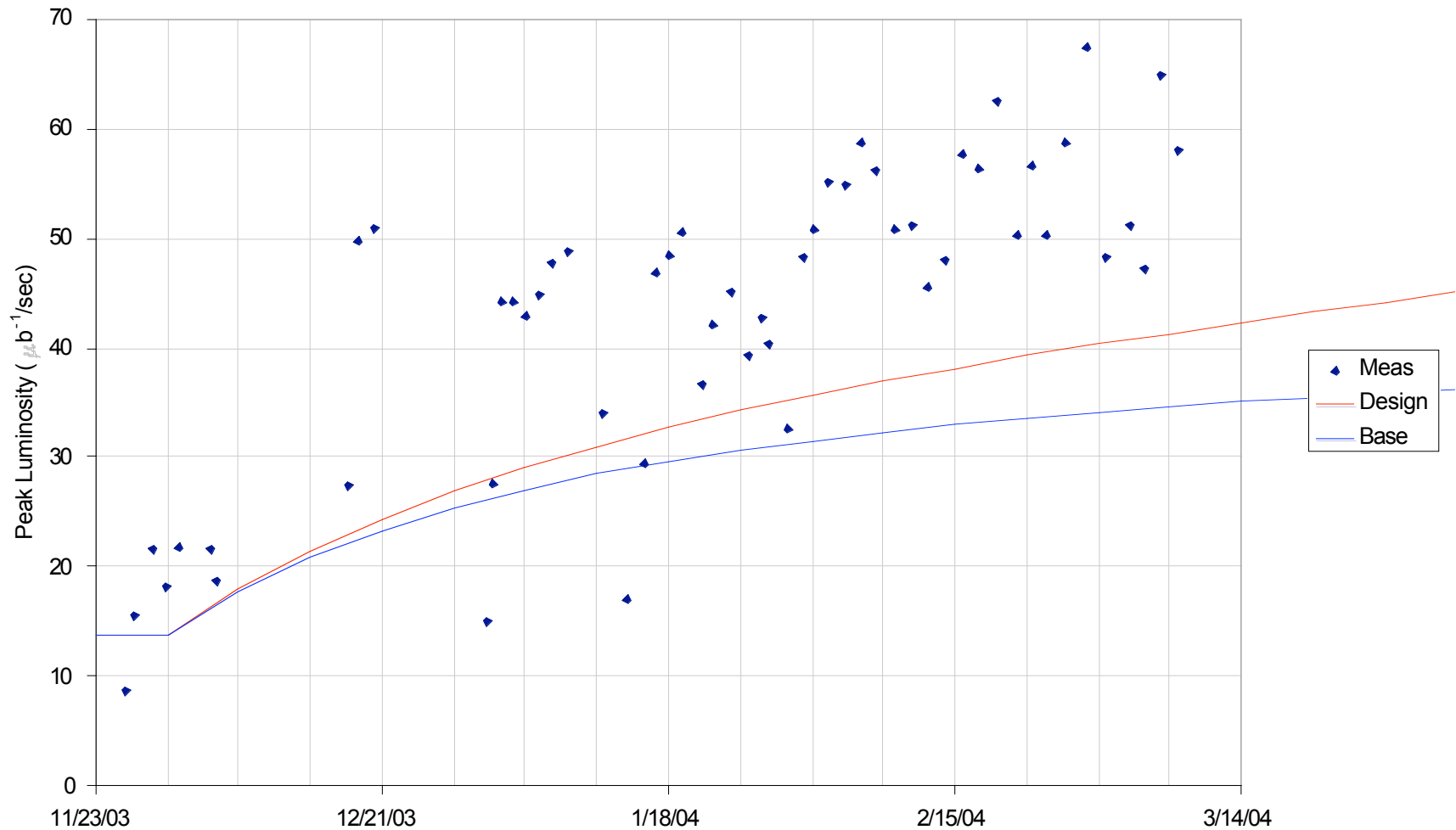


# Accelerator Performance





# Accelerator operation





## Summary/Plan

### Tevatron

- 3 quenches this week (2 during stores, and 1 during a shot)
- Recovered from sitewide power glitch in less than a day.
- Still, more than  $10\text{pb}^{-1}$  delivered

### CDF

- COT running with reversed gas flow, nominal voltage on SL1,2,3,6,7,8, reduced voltage SL4,5, XFT using 3-miss for SL4.
- UDPS tested with beam at low lumi.; needs high lumi test.
- new DSP code ready for test with beam.

 Thanks to volunteer SciCo's: Rainer Walny, Steve Hahn, Steve Nahn, Carla Grasso-Pilcher, and Greg Field.



Event : 4879464 Run : 179812 EventType : DATA | Unpresc: 1,33,3,35,4,8,40,10,11,12,13,46,15,48,17,19,20,21,23,55,27,29 I

Missing Et  
IS NOT DEFINED!

List of Tracks

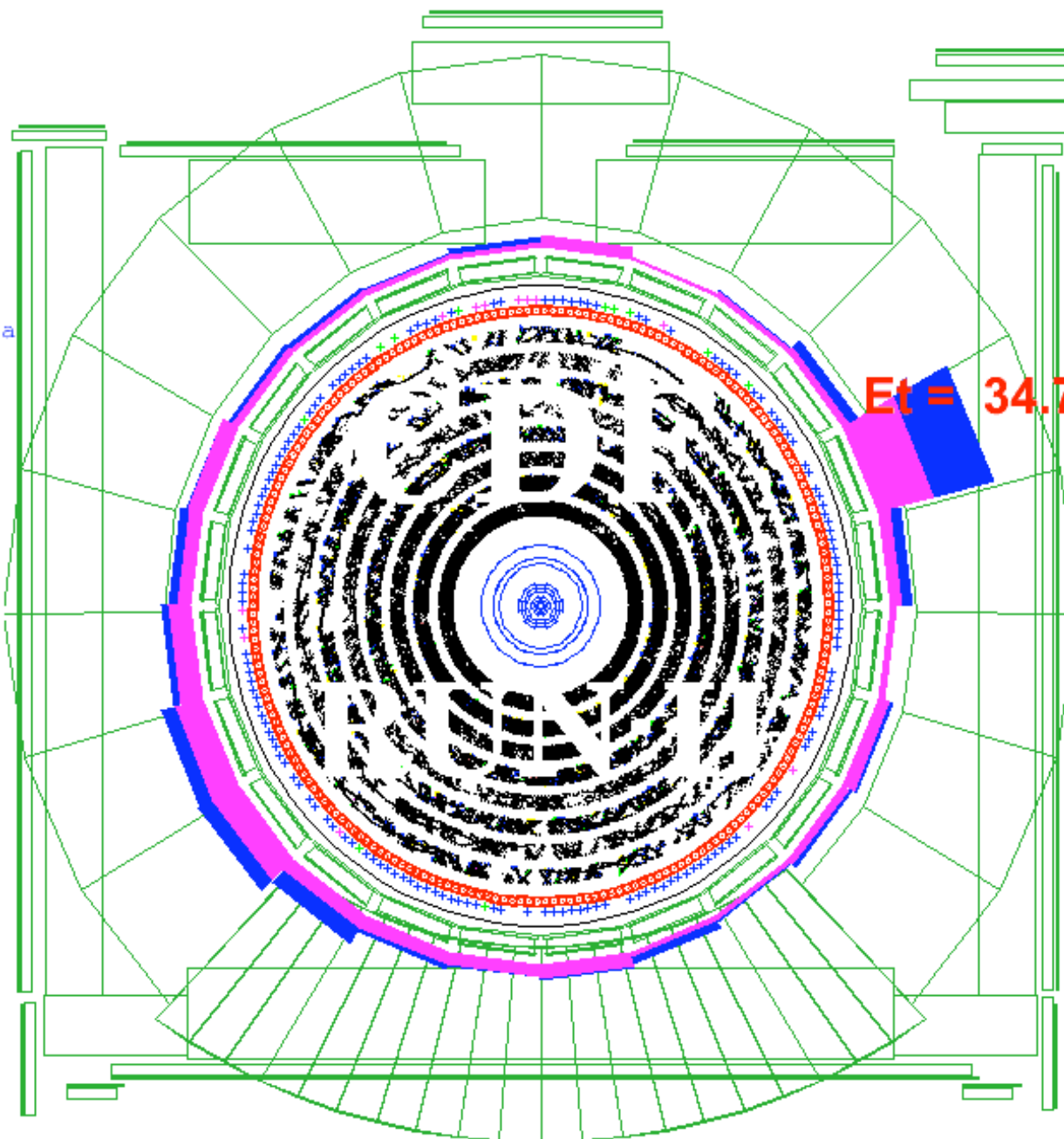
Id	pt	phi	eta
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Svt Tracks: first 5

3	-1.0e+10	0.7	
6	36.2	4.4	
5	30.1	5.3	
13	30.1	5.3	
11	7.9	6.1	

To select track type

SelectSvtTrack(Id)



Jets(R = 0.7): first

Em/Tot	et	phi	et
0.5	44.9	0.3	0
0.6	40.3	3.5	0
0.8	15.7	4.2	-0
0.6	11.7	3.1	2
0.6	11.4	0.9	-2

To list all jets

ListCdfJets()